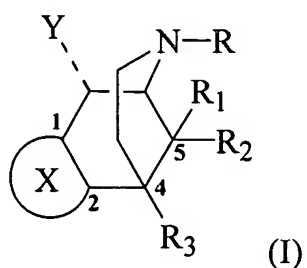


AMENDMENTS TO THE CLAIMS

Kindly amend claim 1 and cancel claims 2, 3, 5-7, 9, 12-15, and 20-22 as provided in the following Claims Listing.

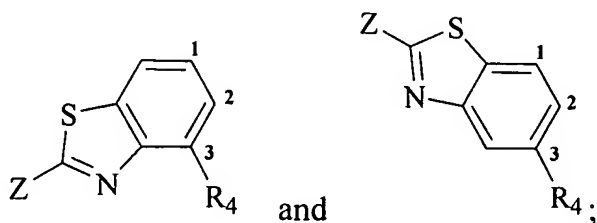
Claims Listing:

1. (Currently Amended) A compound of formula I:



or a pharmaceutically acceptable salt thereof, wherein

X includes the carbon atoms at positions 1 and 2 and is selected from



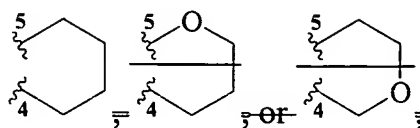
Y is H, oxo, or methyl;

R is selected from H, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, C₂₋₆ heterocyclyl, C₆₋₁₂ aryl, C₇₋₁₄ alkaryl, C₃₋₁₀ alkheterocyclyl, and C₁₋₇ heteroalkyl;

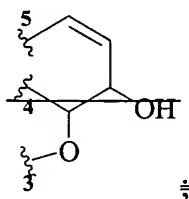
R₁ is selected from H and CH₃;

R₄ is H and R₂ and R₃ are each, independently, H, C₁₋₇ alkyl, or R₂ and R₃ combine to

form a fused six-membered ring in which position 4 is connected to position 5 by



or ~~R₄ combines with R₂ and R₃ to form a fused ring system in which position 3, 4, and 5~~
are connected by



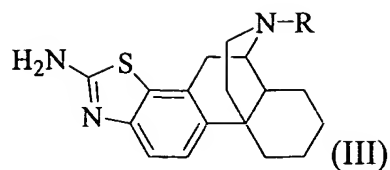
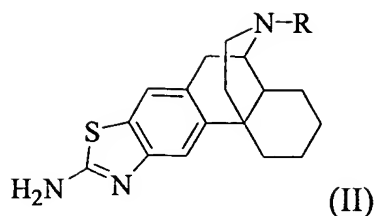
Z is selected from ~~NHR₅ and N(R₆)₂~~; and

R₅ is selected from H, ~~C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, C₂₋₆ heterocyclyl, C₆₋₁₂ aryl, C₇₋₁₄ alkaryl, C₃₋₁₀ alkheterocyclyl, C₁₋₇ heteroalkyl, acyl, and fatty acid acyl~~; and each R₆ is, ~~independently, selected from C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, C₂₋₆ heterocyclyl, C₆₋₁₂ aryl, C₇₋₁₄ alkaryl, C₃₋₁₀ alkheterocyclyl, and C₁₋₇ heteroalkyl~~.

2. Canceled.

3. Canceled.

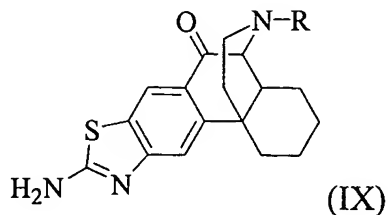
4. (Original) The compound of claim 1, wherein said compound is described by formulas II or III:



or a pharmaceutically acceptable salt thereof, wherein R is selected from H, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, C₂₋₆ heterocyclyl, C₆₋₁₂ aryl, C₇₋₁₄ alkaryl, C₃₋₁₀ alkheterocyclyl, and C₁₋₇ heteroalkyl.

5-7. Canceled.

8. (Original) The compound of claim 1, wherein said compound is described by formula IX:

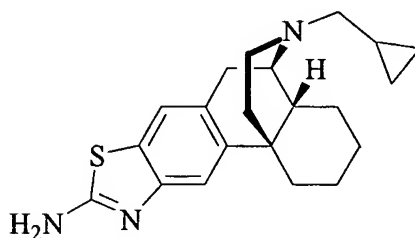


or a pharmaceutically acceptable salt thereof, wherein R is selected from H, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, C₂₋₆ heterocyclyl, C₆₋₁₂ aryl, C₇₋₁₄ alkaryl, C₃₋₁₀ alkheterocyclyl, and C₁₋₇ heteroalkyl.

9. Canceled.

10. (Previously Presented) The compound of claim 4 or 8, wherein R is selected from CH₃, CH₂(cyclo-C₄H₇), CH₂(cyclo-C₃H₅), CH(CH₃)(cyclo-C₃H₅), CH₂CH₂CH₂F, CH₂CH₂OCH₃, CH₂CH₂OCF₃, CH₂CH(CH₃)₂, CH₂CH=CH₂, *trans*-CH₂CH=CHI, CH₂C≡CH, benzyl, phenethyl, 3,4-dichlorophenethyl, 3-furanylmethyl, 2-furanylmethyl, 3-tetrahydrofuranylmethyl, and 2-tetrahydrofuranylmethyl.

11. (Original) The compound of claim 10, wherein said compound has the structure



or a pharmaceutically acceptable salt thereof.

12-15. Canceled.

16. (Previously Presented) A pharmaceutical composition comprising an effective amount of a compound of any of claims 1, 4, 8, 10, or 11, or a suitable salt thereof, together with a pharmaceutically acceptable carrier or diluent.

17. (Original) A method of treating pain in a patient in need thereof, said method comprising the step of administering to said patient a pharmaceutical composition of claim 16 in an amount sufficient to treat said pain.

18. (Original) A method of treating a dopamine dysregulation disease in a patient in need thereof, said method comprising the step of administering to said patient a pharmaceutical composition of claim 16 in an amount sufficient to treat said disease.

19. (Original) The method of claim 18, wherein said disease is selected from the group consisting of schizophrenia, attention deficit hyperactivity disorder (ADHD), attention deficit hyperactivity disorder (ADD), Parkinson's disease, hyperprolactinemia, depression, and addiction.

20-22. Canceled.